BRUHATH BENGALURU MAHANAGARA PALIKE

EMB

FIRST AND FINAL BILL

NAME OF WORK: "IMPROVEMENTS AND CONSTRUCTION OF COMPOUND WALL, SUMP TANK AND ELECTRIC WORK IN GOVT PRIMARY & HIGH SCHOOL YELAHANKA B SECTOR IN WARD NO-05 OF YELAHANKA NEW TOWN SUB DIVISON"

BRUHAT BANGALORE MAHANAGARA PALIKE								
EXECUTIVE ENGINEER: YELAHANKA DIVISION								
Name of Work: "Improvements and Construction of Compound Wall, Sump Ta... Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"								
Pre-Measurement Sheet								
1st & Final Bill								
Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)								
Item No.	1							
Item Name:	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material to the appropriate disposal area as per direction of Engineer-in-charge(PWD SR 2021-22 Vol-2 Pg 165 item No.19.27.2)							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Pre-Measurement Recorded On:								
Dismantling Roof								
Asbestos Cement Sheet								
		1	4.35	2.80		12.18		
Total Quantity						12.18	Sqm	
Quantity Carried to Summary						12.18	Sqm	

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	2							
Item Name:	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking to the appropriate disposal area as per direction of Engineer in-charge.(PWD SR 2021-22 Vol-2 Pg 164 item No.19.12.2)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
Demolish of Doors , Windows							
	Doors	1	1.10	2.10		2.31	
	Ventilaters	2	0.45	0.45		0.41	
Total Quantity						2.72	Sqm
Quantity Carried to Summary						2.72	Sqm

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	3							
Item Name:	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.(PWD SR 2021-22 Vol-2 Pg 163 item No.19.7.3)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
Demolishing Brick Work							
Existing Building		1	4.35		2.35	10.22	
Deduction							
Doors		-1	1.10		2.10	-2.31	
Ventilaters		-2	0.45		0.45	-0.41	
Total Quantity						7.51	Sqm
Quantity Carried to Summary						7.51	Sqm

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	4							
Item Name:	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge(PWD SR 2021-22 Vol-2 Pg 163 item No.19.2.1)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
Demolishing CC Floor							
	Staff Room	1	5.60	8.18		45.81	
	Head Master Room	1	5.60	8.18		45.81	
	Computer Class Room	1	5.60	8.18		45.81	
Total Quantity						137.42	Sqm
Quantity Carried to Summary						137.42	Sqm

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BRUHAT BANGALORE MAHANAGARA PALIKE								
EXECUTIVE ENGINEER: YELAHANKA DIVISION								
Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"								
Measurement Sheet								
1st & Final Bill								
Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)								
Item No.	5							
Item Name:	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking to the appropriate disposal area as per direction of Engineer-in-charge.(PWD SR 2021-22 Vol-2 Pg 165 item No.19.19)							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Pre-Measurement Recorded On:								
Existing Gate				30kg/Sqm		In Kgs		
	Gate	1	5.60		2.53	425.04		
Total Quantity						425.04	Kgs	
Quantity Carried to Summary						425.04	Kgs	

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	6							

Item Name: Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m(PWD SR 2021-22 Vol-1 Pg 5 item No.1.4.2)

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
Earth Work by Manual							
	New Drain	1	14.00	0.90	0.60	7.56	
	Sump	1	3.30	3.30	2.00	21.78	
	Compound Wall	1	5.70	0.90	0.60	3.08	
	Culvert	1	4.50	1.10	0.90	4.46	
					Total Quantity	36.87	Cum
					Quantity Carried to Summary	36.87	Cum

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EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	7							
Item Name:	Poviding and Filling foundation with granite/ trap broken metal 100mm and down size with approval sand including hand packing ramming watering including cost of all materials and labour with all lead and lift complete as per specifications .Specification No.(PWD SR 2021-22 Vol-2 Corrigenda item No.6.4)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
Earthfilling							
	Sump	1	4.50	1.10	0.10	0.50	
	Footing	2	1.10	1.10	0.10	0.24	
					Total Quantity	0.74	
					Quantity Carried to Summary	0.74	Cum

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Executive Engineer
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BBMP, Bangalore-106

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	8							
Item Name:	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregate(PWD SR 2021-22 Vol-1 Pg 15 item No.2.1.3)(PWD SR 2021-22 Vol-1 Pg 5 item No.1.4.2)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
PCC for Bed Concrete							
	New Drain	1	14.00	0.90	0.15	1.89	
	Sump	1	3.30	3.30	0.15	1.63	
	Compound Wall	1	5.70	0.90	0.15	0.77	
	Culvert	1	4.50	1.10	0.15	0.74	
	Footing	2	1.10	1.10	0.15	0.36	
					Total Quantity	5.40	Cum
					Quantity Carried to Summary	5.40	Cum

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	9							
Item Name:	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)Mix (PWD SR 2021-22 Vol-1 Pg 16 item No.2.4.1)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
RCC for all Sub Structures							
	For Sump Raft	1	3.30	3.30	0.15	1.63	
	Sump Wall	2	3.30	0.20	1.50	1.98	
	Sump Wall	2	3.00	0.20	1.50	1.80	
	Sump Roof Slab	1	3.30	3.00	0.15	1.49	
	Deduction						
	Opening	-1	1.00	1.00	0.20	-0.20	
	Footing	2	1.10	1.10	0.30	0.73	
	Columns	2	0.20	0.20	0.30	0.24	
	SSM	1	4.50	0.90	0.15	0.61	
	Drain Bottom Raft	1	14.00	0.90	0.15	1.89	
	Drain walls	2	14.00	0.15	0.60	2.52	

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SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Culvert Bottom Raft		1	4.50	1.10	0.20	0.99	
Culvert walls		2	4.50	0.23	0.60	1.24	
Total Quantity						14.70	
Quantity Carried to Summary						14.54	

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EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	10							
Item Name:	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) 2.5.2 M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
RCC for all Super Structures							
	Column Above GL	2	0.20	0.20	2.10	0.17	
					Total Quantity	0.17	Cum
					Quantity Carried to Summary	0.17	Cum

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e of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Pre- Measurement Sheet

1st & Final Bill

of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

lo.	11											
e:	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.											

hainage		Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No.of bars ((6/8)x4) +1	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
n	To											
	2	3	4	5	6	7	8	9	10	11	12	13
		Tonne										
Premeasurement recorded on:												
Footing F1		2	16.00	1.10	1.10			12.00	13.20	1.58	20.86	
		2	12.00	1.10	0.30	0.100		23.00	6.90	0.89	6.14	
Columns		2	16.00	2.40	2.40			12.00	28.80	1.58	45.50	
		2	12.00	2.40	0.20	0.100		49.00	9.80	0.89	8.72	
Sump Roof Slab		2	16.00	3.30	3.00	0.100		67.00	201.00	1.58	317.58	
		2	12.00	3.00	3.30	0.100		61.00	201.30	0.89	179.16	
Sump Walls		2	12.00	3.30	1.50	0.100		67.00	100.50	0.89	89.45	
		2	10.00	1.50	3.30	0.125		25.00	82.50	0.62	51.15	
Sump Cover Slab		2	12.00	3.30	3.00	0.100		67.00	201.00	0.89	178.89	
		2	10.00	3.00	3.30	0.100		61.00	201.30	0.62	124.81	

Chainage m	Chainage To	Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No.of bars ((6/8)x4) +1	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
		Drain	2	10.00	14.00	14.00		18.00	252.00	0.62	156.24	
			2	8.00	14.00	0.90	0.100	281.00	252.90	0.39	98.63	
		Culvert	2	12.00	4.50	4.50		18.00	81.00	0.89	72.09	
			2	10.00	4.50	0.65	0.100	91.00	59.15	0.62	97.67	
										Total Quantity	1526.48	Kgs
										Quanity Limit to	1513.84	Kgs

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EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	12							

Item Name: Providing and Fixing Pre-cast covering Slab 100mm thick made out of CC Jelly 20mm Down Size with Steel reinforcement including form work curing including cost of all materials labour hire charges of machinery loading unloading lead and lift transportation etc complete as per Engineer incharge (Approved Data Rate)

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:							
100mm Cover Slab for Drain							
	Drain Slab	1	14.00	0.90		12.60	
					Total Quantity	12.60	Sqm
					Quantity Carried to Summary	12.60	Sqm

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	13							
Item Name:	Providing and Fixing Pre-cast covering Slab 230mm thick made out of CC Jelly 20mm Down Size with Steel reinforcement including form work curing including cost of all materials labour hire charges of machinery loading unloading lead and lift transportation etc complete as per Engineer incharge (Approved Data Rate)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:							
230mm Cover Slab for Culvert							
	Culvert Slab	1	4.50	1.10		4.95	
					Total Quantity	4.95	
					Quantity Carried to Summary	4.95	Sqmt

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BBMP-Bangalore

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	14							
Item Name:	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.Mix 1:2:4 M15 (The cost of steel reinforcement & formwork to be paid separately)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
M15 Concrete for Bed Concrete							
	For Enterance	1	13.40	15.50	0.10	20.77	
					Total Quantity	20.77	Cum
					Quantity Carried to Summary	20.77	Cum

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Asstistant Engineer
Ward No.05
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Asst. Executive Engineer
Yelahanaka New Town Sub Division
BBMP-Bangalore

BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	15							
Item Name:	Earth work in surface excavation for stripping, seating of bund, Road way, by manual means for lowering & leveling the ground for all works other than foundation & depth in all kinds of soil not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work (PWD SR 2021-22 Vol-1 Pg 8 item No.1.12)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
Earthwork for Pathway							
	For Enterance	1	13.40	15.50	0.30	62.31	
					Total Quantity	62.31	Cum
					Quantity Carried to Summary	62.31	Cum

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	16							
Item Name:	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work. (P.No. 7, I.No. 1.8 of PWD & CSR VOL-1 SR 2021-22)							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Pre-Measurement Recorded On:								
Embankment for Pathway								
	For Enterance	1	13.40	15.50	0.10	20.77		
					Total Quantity	20.77	Cum	
					Quantity Carried to Summary	20.77	Cum	

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BRUHAT BANGALORE MAHANAGARA PALIKE

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Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	17							
Item Name:	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)2.1.1 Mix 1:5:10 (M 5.0) Using 40 mm nominal size graded crushed coarse aggregates							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
M5 Concrete for Pathway Bed							
	For Enterance	1	13.40	15.50	0.15	31.16	
					Total Quantity	31.16	
					Quantity Carried to Summary	31.16	

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No. 18

Item Name: Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
M30 Concrete for Pathway							
	For Enterance	1	13.40	15.50	0.10	20.77	
					Total Quantity	20.77	Cum
					Quantity Carried to Summary	20.77	Cum

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	19							
Item Name:	Providing and laying heavy duty cobble stones 60mmthick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its finallevel , including cost of materials, labour andUsage charges of machinery complete as per specifications.							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:							
Cobble Stone for Pathway							
	For Enterance	1	13.40	15.50		207.70	
					Total Quantity	207.70	
					Quantity Carried to Summary	207.70	

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	20							
Item Name:	Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its finallevel , including cost of materials, labour andUsage charges of machinery complete as per specifications.							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:							
Cobble Stone for Pathway						207.70	
For Enterance		1	13.40	15.50			
					Total Quantity	207.70	Sqm
					Quantity Carried to Summary	207.70	Sqm

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	21							
Item Name:	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum.(Tipper 14 m3)(PWD SR 2021-22 Vol-III Pg 3 item No.1.1C)							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Pre Measurement Recorded On:								
Loading and Unloading								
Excavated Earth		1	Qty Vide Item No			461.91		
Total Quantity						461.91		
Quantity Carried to Summary						461.91		

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	22							
Item Name:	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km(PWD SR 2021-22 Vol-III Pg 3 item No.1.4 A)							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Pre Measurement Recorded On:								
Cost of Haulage								
Excavated Earth		1	Qty Vide Item No 22					
			461.91		1.280	591.2448	t.km	
Total Quantity						591.24	t.km	
Quantity Carried to Summary						591.24	t.km	

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Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	23							
Item Name:	Fabricating .Providing and erecting in position Hot dip galvanised Gate.Using 72X72X4.8MM Sq.GI pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile , 20mm hot dip galvinsed sq.road for verticles at 150mm C/C,as shown in the drawing including providing hot dip galvanised forged Ornamental design in btn Sq.road and heads at top, middle,and bottom.Intermediate supports 75x12mm and 50x6 mm arch bend to hot dip galavised Flats .The work is inclusiveof thoughing GI flat GI sq.rods placing welding aal joints including griding,finishing metal putty painting two coats enamel painting .the rate is inclusive of all materials like GI sq.pipe, GI sq.rods,GI Forged designsetc... heavy duty hinges are made out of 75MM Solid Sq,block assembled with 20mm dia bearing in three places for each flop heavy duty locking arrangements at tow places including cost of labour, painting,erecting charges using hoist pulley cranes with all lead lift charges loading transportation unloading Scaffolding charges for succesfull completion of the work as per directions of the Engineer in charge(Data Rate)							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Measurement Recorded On:								
	MS Gate							
	For Enterance Gate	1	5.60	2.53		14.17		
					Total Quantity	14.17		
					Quantity Carried to Summary	14.17		

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	24						
Item Name:	Providing and placing on terrace ,Polythene water storage tanks as per IS12701 Marked with cover and suitable locking arrangement and make necessary holes for inlet,outlet and overflow pipes but without fittings and the base supports for tank (For 1000 litres capacity)(PWD SR 2021-22 Vol-2 Corrigenda Sl.No.12 item No.13.34)						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:							
Polythene Water Storage (Sintex)						2000.00	
	Primary School	1	2000.00			1000.00	
	High School	1	1000.00				
					Total Quantity	3000.00	Ltr
					Quantity Carried to Summary	3000.00	Ltr

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BRUHAT BANGALORE MAHANAGARA PALIKE

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Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	25							
Item Name:	Providing and fixing M.S. grills of required pattern in frames of win dows etc. with M.S. flats, square or round bars etc.including priming coat with approved steel primer all complete. Fixed to steel window by welding(PWD SR 2021-22 Vol-2 Pg 85 item No.11.34 A)							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Measurement Recorded On:								
	Ms Grills for Safety Grill							
	Near Class Room (Left Side)	9	2.70	1.85		44.96		
	Near Stair Case	1	2.20	2.70		5.94		
	Near Class Room (Left Side)	6	2.80	1.95		32.76		
						83.66		
				In 16Kgs per Sqm for Grill		1338.48		
					Total Quantity	1338.48	Kgs	
					Quantity Carried to Summary	1166.31	Kgs	

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BRUHAT BANGALORE MAHANAGARA PALIKE

EXECUTIVE ENGINEER: YELAHANKA DIVISION

Name of Work: "Improvements and Construction of Compound Wall, Sump Tank and Electric Work in Govt Primary & High School Yelahanka B Sector in ward no-05 of Yelahanka New Town Sub Divison"

Measurement Sheet

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Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No. 26

Item Name: Providing and laying Cement concrete flooring 40 mm thick with 20 mm nominal size stone aggregate using 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry complete(PWD SR 2021-22 Vol-2 Pg 59 item No.9.1)

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
Concrete Flooring							
		1	8.00	2.42		19.36	
					Total Quantity	19.36	
					Quantity Carried to Summary	19.36	

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Measurement Sheet

1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	27							
Item Name:	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.Mix 1:2:4 M15 (The cost of steel reinforcement & formwork to be paid separately)							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:							
Concrete Flooring							
		1	8.00	2.42	0.10	1.94	
					Total Quantity	1.94	Cum
					Quantity Carried to Summary	1.94	Cum

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Measurement Sheet

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Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	28							
Item Name:	Supply and Delivery of Centrifugal pumpset at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments 2 HP Size 50x40 Head 22M Discharge 186LPM							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:							
PUMPset							
	Motor	1	2.00			2.00	
					Total Quantity	2.00	Each
					Quantity Carried to Summary	2.00	Each

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Measurement Sheet

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Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	29							
Item Name:	Green Soul Seuol-X Mid Back Ergonomic Chair (Home Office, WFH Moulded Foam Extra Comfort Faabric Office Executive Chair Data Rate Complete as per Specifications Specification and direction of site engineer in charge							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Measurement Recorded On:								
Mid Back Ergonomic Chair						6.00		
	High School Chairs	1	6.00			5.00		
	Primary School Chairs	1	5.00					
					Total Quantity	11.00	No,s	
					Quantity Carried to Summary	11.00	No,s	

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1st & Final Bill

Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	30							
Item Name:	Supplying steel Almirah with shelves & locker 6.6 feet 18/20 gauge of size 78" x 36" x 19" etc including of all taxes as per approved by engineer in charge (Data Rate) Complete as per specifications Specifiaction and direction of site engineer in charge							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Measurement Recorded On:								
						3.00		
	High School	1	3.00			4.00		
	Primary School	1	4.00					
					Total Quantity	7.00		
					Quantity Carried to Summary	7.00		

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Name of Agency: Smt. Likith V (Shree Byraveshwara Constructions)

Item No.	31							
Item Name:	Supplying of ….feet PVC Batten with integrated LED tube…W with high quality diffuser with life of 25000 burning hours & 70% lumen maintenance with CRI> 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved . 2 years Warranty against any manufacturing defect working under standard electrical condition LED light fitting 1x2' - 9/10 W							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:							
Integrated LED Tube							
	Staff Room	1	4.00			4.00	
	HM Room	1	3.00			3.00	
	Class Room	1	10.00			10.00	
					Total Quantity	17.00	Each
					Quantity Carried to Summary	17.00	Each

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